



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Chang Yul Cha

**Filed:** 02/07/02

**Serial No.** 10/071,280

**Title:** Process for Microwave Destruction of Harmful Agents and Waste

**Art Unit No.** 1741

**Examiner:**

**E. Wong**

Commissioner of Patents and Trademarks  
Washington, DC 20231

Dear Sir:

Attorney Docket No. 270

**AMENDMENT**

In response to the Office Action dated May 18, 2004 please note the following amendment of the above-identified U.S. patent application:

*In the Claims:*

All claims follow in the revised amendment style format.

1. (previously amended) A process for microwave destruction of solid harmful contaminated waste comprising:
  - compacting said waste on a platform, wherein said platform contains a carbonaceous substance;
  - radiating said platform with microwaves to produce pyrolysis of said waste;
  - collecting vapors from said pyrolysis with a purge gas; and
  - treating said purge gas with microwaves while passing through an oxidation catalyst bed energized with a carbonaceous substance, wherein said purge gas exit temperature does not exceed 300 °F.
2. (previously amended) The process according to claim 1 wherein said harmful contaminated waste further comprises being selected from the group consisting of chemical agents, biological agents, and medical waste.
3. (original) The process according to claim 1 wherein all carbonaceous substances further comprise being selected from the group consisting of activated carbon, char, soot, pyrolytic carbon, activated charcoal, metal carbides, and combinations thereof.
4. (original) The process according to claim 1 wherein said purge gas further comprises significant oxygen in order to enhance pyrolysis.

7-8-04

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## TRANSMITTAL LETTER

Transmitted herewith is Amendment and Remarks for the above-identified application. Said application is pending after an Office Communication dated May 18, 2004 from the Examiner. Enclosed are:

- Amendment and Remarks for the above-identified application.
- This Express Mail Certificate of Mailing setting a filing date of 7-6-04; No.

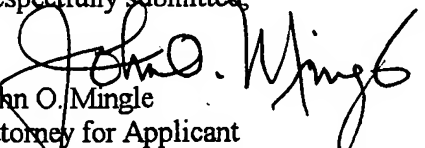
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The undersigned below hereby certifies that the accompanying papers for the above-identified application as transmitted herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, DC 20231.

- A receipt stamped, postcard to be returned to said attorney.

The Commissioner is hereby authorized to charge payment of any additional filing fees under 37 C.F.R. 1.16 and any patent application processing fees under 37 C.F.R. 1.17 associated with this communication or credit any overpayment to Deposit Account No. 133642. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

  
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Dated: 7-6-04